

## Preface

The 66th Annual Purdue Road School was well attended by members of all cooperating groups. The efforts of all who gave freely of their time toward the success of this venture are gratefully acknowledged.

The 67th Annual Road School will be held on Tuesday, Wednesday, and Thursday, March 10-12, 1981, at Purdue University, West Lafayette, Indiana.

### REGISTRATION

The official registration totaled 1,047. The following tabulation shows the classified Road School registrations over the past five years.

Classified Road School Registrations

	1976	1977	1978	1979	1980
State Highway Personnel . . . . .	373	378	343	322	305
County Road Supervisors and Employees . . . . .	68	82	60	71	68
County Highway Engineers and Assistants . . . . .	59	41	41	52	42
County Surveyors and Deputies . . . . .	55	39	27	47	38
County Commissioners . . . . .	132	144	101	163	133
County Auditors . . . . .	44	37	37	36	40
City Officials . . . . .	132	124	72	87	101
Contractors, Materials and Equipment Supplies . . . . .	219	218	206	182	154
Engineering Consultants . . . . .	83	66	77	71	84
Miscellaneous . . . . .	107	110	69	92	82
Total . . . . .	1,272	1,239	1,033	1,123	1,047

### COOPERATING GROUPS

The 1980-1981 official directory of the Road School cooperating groups is as follows:

**OFFICIAL DIRECTORY**  
**1980-1981 Officers**

---

**PURDUE UNIVERSITY**

A. G. Hansen	President
J. C. Hancock	Dean, Schools of Engineering
R. Eugene Goodson	Associate Dean, Schools of Engineering, and Director, Engineering Experiment Station
J. F. McLaughlin	Associate Dean, Schools of Engineering, and Secretary, Joint Highway Research Project
H. L. Michael	Head, School of Civil Engineering, and Director, Joint Highway Research Project
W. H. Goetz	Assistant Head, School of Civil Engineering, and Director, Highway Extension and Research Project for Indiana Counties
M. J. Gutzwiller	Assistant Head for Instruction School of Civil Engineering

**INDIANA STATE HIGHWAY COMMISSION**

Donald C. Pratt, Rockville	Chairman
James F. Dumas, Fort Wayne	Vice Chairman
Kermit Gregory, Rising Sun	Member
Harold O. McCutchan, Evansville	Member
Jack N. Smitherman, Mooresville	Secretary to Commission
Henry P. Wehrenberg, Fort Wayne	Executive Director
G. K. Hallock	Chief Highway Engineer
K. R. Hoover	Deputy Chief Highway Engineer
D. W. Lucas	Assistant Chief Engineer—Operations
W. H. Frick	Assistant Chief Engineer—Development
R. L. Eskew	Assistant Chief Engineer—Research and Engineering Services
W. T. May	Assistant Chief Engineer—Administration

**INDIANA ASSOCIATION OF  
COUNTY COMMISSIONERS**

Warren Henegar, Monroe County	President
Arnold Dougherty, Wayne County	Vice President
Pat Quinn, Laporte County	Secretary-Treasurer
Tom Bell, Starke County	Executive Secretary

**INDIANA ASSOCIATION OF  
COUNTY HIGHWAY SUPERVISORS**

DeWayne Beer, Adams County	President
Gene Shurte, LaPorte County	Vice President
Gene Brewer, Wabash County	Secretary-Treasurer

## INDIANA ASSOCIATION OF COUNTY ENGINEERS

David South, Fountain County ..... President  
David Goodwin, Marshall County ..... Vice President  
Jim Kane, Warren County ..... Secretary-Treasurer

## INDIANA COUNTY SURVEYORS ASSOCIATION

Jack Irwin, Marion County ..... President  
Kenton Ward, Hamilton County ..... Vice President  
Leslie Weber, Noble County ..... Vice President  
John McNamara, Saint Joseph County ..... Secretary-Treasurer

## INDIANA CITY ENGINEERS ASSOCIATION

Philip Grounds, Vincennes ..... President  
Harold E. Smith, Anderson ..... Vice President  
Lawrence Lambert, Kokomo ..... Secretary-Treasurer  
Maurice Callahan, Lafayette ..... Director

## INDIANA STREET COMMISSIONERS ASSOCIATION

Jerry Haynes, Richmond ..... Acting President  
Jim Harper, Crawfordsville ..... First Vice President  
Joe Hackley, Laporte ..... Second Vice President  
Al Reece, Beech Grove ..... Third Vice President  
William Steele, Seymour ..... Fourth Vice President  
Charles H. Keller, Madison ..... Secretary-Treasurer

## INDIANA SECTION

### INSTITUTE OF TRANSPORTATION ENGINEERS

Tom Manny, Fort Wayne ..... President  
Robert Cales, Indianapolis ..... Vice President  
Chip Lang, Indianapolis ..... Treasurer  
Tom Prewitt, Kokomo ..... Secretary  
Herb Haneline, Fort Wayne ..... Director

## INDIANA COUNTY AUDITORS ASSOCIATION

Jean Northenor, Kosciusko County ..... President  
Naomi Jackson, Bartholomew County ..... 1st Vice President  
Charles Miller, Elkhart County ..... 2nd Vice President  
Sherry K. Waters, LaPorte County ..... Secretary-Treasurer

## INDIANA CONSTRUCTORS, INC.

Robert Winslow, Salem ..... President  
C. W. (Wes) Kemp, Terre Haute ..... Vice President  
Terry Smith, Peru ..... Secretary-Treasurer  
James Newland, Indianapolis ..... Executive Secretary

## AMERICAN PUBLIC WORKS ASSOCIATION

Carl O'Neal, Fort Wayne .....	President
John Hardwick, Valparaiso .....	Vice President
Joseph Harrison, Indianapolis .....	Secretary-Treasurer
Lawrence Lambert, Kokomo .....	Director
Roger Tate, Indianapolis .....	Director
John Farrar, Indianapolis .....	Indiana Delegate



Figure 1. Road School Planners. Members of the Road School Planning Committee are from the Indiana State Highway Commission, Purdue, and various Indiana associations concerned with highways.

Lower left corner: H. L. Michael, Road School Co-chairman, Purdue; bottom row, left to right: Dave South, County Engineer; Chuck Scholer, Purdue; Bill Hancock, ISHC; C. W. Kemp, Wabash Valley Asphalt Co.; second row; Gus Gutzwiller, Purdue; Max Hunter, ISHC; Wayne Walters, ISHC; Bob Eskew, ISHC; Bill Goetz, Road School Co-chairman, Purdue; third row: Joe Sudol, ISHC; John McEntyre, Purdue; Jack McDonald, Indiana Constructors Inc.; Gary Kent, County Surveyors; Don Shurig, Purdue; fourth row: Art Graham, Construction Digest; Eldy Yoder, Purdue; Gil Satterly, Purdue; Bob Cales, ISHC; Jerry Haynes, Street Commissioners; fifth row: Len Wood, Purdue; Walter Schulenburg, County Commissioners; Don Hancher, Purdue; Jack McLaughlin, Purdue; Jean Hittle, Purdue; sixth row: DeWayne Beer, County Supervisors and Marion Scott, Purdue.



Figure 2. Tuesday general session speakers were (left to right): Henry Wehrenberg, director ISHC, and Donald C. Pratt, chairman ISHC "State Highway, Past, Present, and Future;" Joseph Sudol, research engineer, ISHC Research and Training Center, "Pothole Patching;" Eldon J. Yoder, research engineer, Purdue "Truck Size and Weight Issues;" Wallace West, equipment specifications supervisor, ISHC, "Innovation of Equipment vs. Snow and Ice Control;" Harold L. Michael, director, Joint Highway Research Project, Purdue "Summary of Selected Research at Purdue University in 1979;" Gene K. Hallock, chief highway engineer, ISHC, presiding.



Figure 3. Wednesday general session speakers (left to right): Peter J. Kottnow, president, Highway Users Federation for Safety and Mobility, "Pennies, Potholes, and Politics;" James O'Day, research scientist, Highway Safety Research Institute, University of Michigan, "Bigger Trucks and Smaller Cars;" Arthur E. Graham, executive vice president, Indiana Highways for Survival, Inc., "The Debasement of Rural America;" Harvey Shabesta, district director, Department of Transportation, State of Wisconsin, "Transportation in the Final 20/20;" Robert D. Miles, professor of highway engineering, Purdue, presiding.

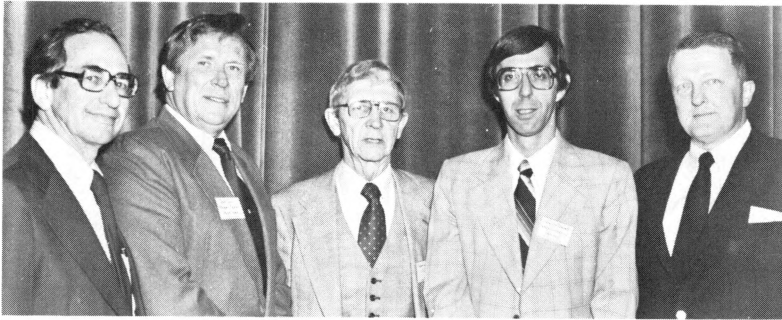


Figure 4. Thursday general session speakers (left to right): Mahlon J. Plumb, Tucket and Hubbard, Inc., consulting engineers, Gary, Indiana, "Bridge Repair vs. Replacement;" John Gray, president, National Asphalt Pavement Association, Riverdale, Maryland, "The Future of Asphalt Pavements;" Edwin C. Tokken, principal highway engineer, Portland Cement Association, Skokie, Illinois, "Pavement Resurfacing with Concrete;" Quenten L. Robnett, associate professor of civil engineering, Georgia Institute of Technology, "Use of Marginal Materials in Highway Construction;" William L. Dolch, professor of engineering materials, Purdue, presiding.



Figure 5. Indiana Association of County Engineers officers for 1980-1981 include (left to right) David Goodwin, Marshall County, vice president; David South, Fountain County, president; and Jim Kane, Warren County, secretary-treasurer.



Figure 6. County Highway Supervisors Association for 1980-1981 include (left to right). Eugene Shurte, Laporte County, vice president; DeWayne Beer, Adams County, president; and Gene Brewer, Wabash County, secretary-treasurer.



Figure 7. Indiana County Surveyors, Association officers for 1980-1981 include (left to right). Leslie Weber, Noble County, vice president; John McNamara, St. Joseph County, secretary-treasurer; Jack Irwin, Marion County, president; and Kenton Ward, Hamilton County, vice president.



Figure 8. Indiana Association of County Commissioners for 1980-1981 include (left to right). Pat Quinn, LaPorte County, secretary-treasurer; Arnold Dougherty, Wayne County, vice president; and Warren Hanegar, Monroe County, president.





**Figure 9.** Indiana City Engineers Association and APWA officers for 1980-1981 include (left to right) John Farrar, Indianapolis, Indiana delegate APWA; Maurice E. Callahan, Lafayette, City Engineers, director; Harold E. Smith, Anderson, City Engineers, vice president; Lawrence R. Lambert, Kokomo, City Engineers, secretary-treasurer and director, APWA; Philip C. Grounds, Vincennes, City Engineers, president; and Carl E. O'Neal, Fort Wayne, president, APWA.



**Figure 10.** Indiana Section—Institute of Traffic Engineers for 1980-1981 include (left to right) Chip Lang, Indianapolis, treasurer; Mike Waught, Indianapolis, past president; Robert Cales, Indianapolis, vice-president; and Tom Manny, Fort Wayne, president.



Figure 11. Indiana Street Commissioners for 1980-1981 include (left to right) Jerry Haynes, Richmond, president; Jim Harper, Crawfordsville, first vice-president; Joe Hackley, Laporte, second vice-president; Al Reece, Beech Grove, third vice-president; William Steele, Seymour, fourth vice-president; and Charles Keller, Madison, secretary-treasurer.



Figure 12. Indiana County Auditors Association for 1980-1981 include (left to right) Sherry K. Waters, Laporte County, secretary-treasurer; Naomi Jackson, Bartholomew County, first vice-president; Charles H. Miller, Elkhart County, second vice-president; and Jean Northenor, Kosciusko County, president, (not shown).

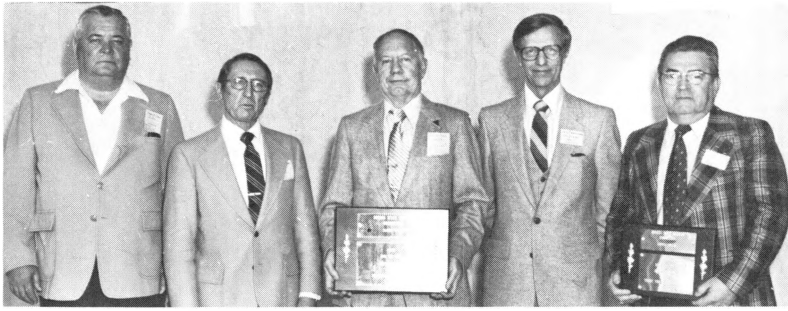


Figure 13. Taking a break from the opening day Road School program, the Indiana State Highway Commission's safety award winners paused to display the plaques their individual units earned in 1979. Crawfordsville District Engineer Kelsey McDaniel (center) accepted his district's award from ISHC Executive Director Henry P. Wehrenberg (second from right), while Terre Haute sub-district superintendent Oscar Monce did likewise for his employees. Joining them were Robert McClure (left), Crawfordsville safety director, and Richard Hedges, Commission safety director. Safety awards are based on the number of accidents per man-hour worked during the year. This year's awards were somewhat special in that the subdistrict and district winners were both from the same district.



Figure 14. Indiana State Highway Commission's Chief of Construction, William J. Ritman (left), presented Pavement Smoothness Award certificates of merit to two construction companies and their highway job supervisors during the opening day session of the 1980 Road School. Honored for bituminous resurfacing work was the Seneca Petroleum Company, represented by Del Hosteller (second from left). Next to Hosteller is Charles Tate, highway project supervisor on that job, from the LaPorte District. The flexible pavement category was won by L. P. Cavett Company, represented by E. P. Stradley (second from right). Highway project engineer on this job, Greg Head (right), also was honored. Testing for the awards was done by the Indiana State Highway Commission's Research and Training Center staff, using a PCA Roadmeter.

